

CLAIMS

1. An information providing system comprising:
a unit for receiving contents and a contents code
5 corresponding to the contents;
a storage unit which stores the contents and the contents code;
a code reading unit which reads the contents code from a paper-type display medium on which the contents code is recorded;
10 and
a control unit which obtains the contents corresponding to the contents code read by the code reading unit from the storage unit and displays the contents on the paper-type display medium.
- 15 2. The information providing system according to claim 1, wherein the control unit records a code indicating a times-of-use, which is a number of times the contents are displayed on the paper-type display medium, on the paper-type display medium.
- 20 3. The information providing system according to claim 2, wherein the code reading unit comprises a unit which reads a code indicating a limited times-of-use from the paper-type display medium and a unit which reads the times-of-use from the paper-type display medium, and
25 wherein the control unit displays the contents on the paper-type display medium when the times-of-use is smaller than the limited times-of-use.
- 30 4. The information providing system according to claim 3, wherein the control unit displays the limited times-of-use and the times-of-use on the paper-type display medium.
- 35 5. The information providing system according to claim 1, wherein the control unit comprises:
a list presenting unit which presents a list of information related to a plurality of contents corresponding to the contents code read by the code reading unit; and

a unit which displays the contents selected from the list by a user on the paper-type display medium.

6. The information providing system according to claim 1,
5 wherein the paper-type display medium comprises a contents display portion in which the contents are displayed, and an invariable code recording portion in which the contents code is recorded in an unalterable state.

10 7. The information providing system according to claim 3,
wherein the paper-type display medium comprises a contents display portion in which the contents are displayed, an invariable code recording portion in which the contents code and a code indicating the limited times-of-use in an unalterable state, and a variable
15 code recording portion in which a code indicating the times-of-use in an alterable state.

8. The information providing system according to claim 7,
wherein characteristic information of the paper-type display medium
20 itself necessary to display the contents on the paper-type display medium is recorded in the invariable code recording portion.

9. A paper-type display medium comprising:
an invariable code recording portion in which a contents
25 code assigned to contents is recorded in an unalterable state; and
a contents display portion in which the contents are displayed.

10. The paper-type display medium according to claim 9,
30 further comprising a base material and a display layer formed on the base material, and wherein the invariable code recording portion is formed between the base material and the display layer.

11. The paper-type display medium according to claim 9,
35 wherein characteristic information of the paper-type display medium itself necessary to display the contents on the paper-type display medium is recorded in the invariable code recording portion.

12. The paper-type display medium according to claim 9, wherein a code indicating a limited times-of-use, which is a number of times the contents corresponding to the contents code is
5 displayable, is recorded in the invariable code recording portion, and

wherein the paper-type display medium further comprises a variable code recording portion in which a code indicating a times-of-use, which is a number of times the contents are displayed
10 on the paper-type display medium, is recorded in an alterable state.

13. The paper type display medium according to claim 12, further comprising a base material and a display layer formed on the base material, and wherein the variable code recording portion
15 and the contents display portion are formed on the base material.

14. An information providing system comprising:
a display device which displays contents;
a unit which receives the contents and a contents code
20 corresponding to the contents code;
a storage unit which stores the contents and the contents code;
a code reading unit which reads the contents code from a paper-type display medium on which the contents code is recorded;
25 and
a control unit which obtains the contents corresponding to the contents code read by the code reading unit from the storage unit and displays the contents on the display device.

30 15. The information providing system according to claim 14, wherein the control unit obtains the contents corresponding to the contents code read by the code reading unit from the storage unit, and displays the contents on the paper-type display medium.

35 16. The information providing system according to claim 15, wherein the contents include still picture contents of still picture and/or moving picture contents of moving picture, and

wherein the control unit displays the still picture contents on the paper-type display medium and/or the display device, and displays the moving picture contents on the display device.

5 17. The information providing system according to claim 14, wherein the control unit comprises:

 a list presenting unit which presents a list of information related to a plurality of contents corresponding to the contents code read by the code reading unit; and

10 a unit which displays the contents selected from the list by a user on the paper-type display medium and/or the display device.

15 18. The information providing system according to claim 14, wherein the paper-type display medium comprises a contents display portion in which the contents are displayed, and an invariable code recording portion in which the contents code is recorded in an unalterable state.

20 19. The information providing system according to claim 14, wherein the paper-type display medium comprises an invariable code recording portion in which the contents code assigned to the contents is recorded in an unalterable state, and a contents display portion in which the contents are displayed,

25 and wherein the paper-type display medium is formed in a manner integrated with a printed matter associated with the contents.

30 20. The information providing system according to claim 19, wherein the paper-type display medium has an identical layout to the printed matter.

35 21. A paper-type display medium comprising an invariable code recording portion in which contents code assigned to contents is recorded in an unalterable state and a contents display portion in which the contents are displayed, and formed in a manner integrated with a printed matter associated with the contents.

22. An information providing system comprising:

1 a contents receiving unit for receiving contents and a
2 contents code corresponding to the contents;

3 a storage unit which stores the contents and the contents
4 code;

5 a contents code reading unit which reads the contents code
6 from a paper-type display medium on which the contents code is
7 recorded;

8 an arbitrary information reading unit which reads an
9 arbitrary information of a user from the paper-type display medium
10 on which the arbitrary information of the user is set;

11 a contents obtaining unit which obtains the contents
12 corresponding to the contents code read by the contents code reading
13 unit; and

14 a control unit which displays the contents obtained by the
15 contents obtaining unit on the paper-type display medium based on
16 the arbitrary information read by the arbitrary information reading
17 unit.

18 23. The information providing system according to claim
19 22, wherein the arbitrary information of the user is set in such
20 a manner that the user uses a recording device to record the arbitrary
21 information on the paper-type display medium, and the arbitrary
22 information is rewritable.

23 24. The information providing system according to claim
24 22, wherein the arbitrary information of the user is set by selecting
25 and recording one of a plurality of check boxes on the paper-type
26 display medium.

27 25. The information providing system according to claim
28 22, wherein the paper-type display medium comprises a contents
29 display portion in which the contents are displayed, an invariable
30 code recording portion in which the contents code is recorded in
31 an unalterable state and an arbitrary information recording portion
32 in which the arbitrary information of the user is recorded.

33 26. An information providing system comprising:

5 a program receiving unit which receives program and a program code corresponding to the program;

10 a program code reading unit which read the program code from a paper-type display medium on which the program code is recorded;

15 a program reproducing unit which reproduces the program corresponding to the program code read by the program code reading unit;

20 a time information calculating unit which calculates a time information related to the program reproduced by the program reproducing unit;

25 a contents receiving unit which receives contents and a contents code corresponding to the contents;

30 a contents storage unit which stores the contents and the contents code;

35 a contents code reading unit which reads the contents code from the paper-type display medium on which the contents code is recorded;

40 a display permission information reading unit which reads display permission information from the paper-type display medium on which the display permission information is recorded;

45 a contents obtaining unit which obtains the contents corresponding to the contents code read by the contents code reading unit from the contents storage unit; and

50 a control unit which displays the contents obtained by the contents obtaining unit on the paper-type display medium based on a presence or absence of reproduction of the program, the time information calculated by the time information calculating unit and the display permission information read by the display permission information reading unit.

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27. The information providing system according to claim 26, wherein the time information is a time period elapsed after starting reproduction of the program, wherein the display permission information is a constant time period that has passed after starting the reproduction of the program set in order to permit display of the contents, and

60 wherein the control unit displays the contents on the

paper-type display medium when the time information is larger than the display permission information.

28. The information providing system according to claim
5 26, wherein a plurality of display permission information can be
set for single contents.

29. The information providing system according to claim
10 26, wherein the program reproducing unit comprises:

a program storing unit which stores the program received
by the program receiving unit and the program code corresponding
to the program; and

15 a unit which obtains and reproduces the program corresponding
to the program code read by the program code reading unit from the
program storing unit.

30. The information providing system according to claim
26, wherein the program reproducing unit reproduces the program
which the program receiving unit is receiving on a real-time basis.

20
31. A paper-type display medium comprising:
an invariable code recording portion in which a contents
code assigned to contents is recorded in an unalterable state;
a recording portion in which the contents are displayed;
25 and
an arbitrary information recording portion in which
arbitrary information of user is recorded.

30
32. The paper-type display medium according to claim 31,
wherein the arbitrary information recording portion comprises check
boxes, and the arbitrary information is set in such a manner that
the user records the arbitrary information on the check box by using
a recording device.

35
33. The paper-type display medium according to claim 31,
wherein a display permission information indicating a time
limitation to display the contents on the paper-type display medium

is recorded in the invariable code recording portion

34. An information providing system comprising:

a contents receiving unit which receives contents;

5 a contents storing unit which stores the contents;

a contents code reading unit which reads a contents code and an attribute code from a paper-type display medium on which the contents code and the attribute code are recorded;

a contents obtaining unit which obtains the contents

10 corresponding to the contents code and the attribute code read by the contents code reading unit from the contents storing unit; and

a control unit which displays the contents obtained by the contents obtaining unit on the paper-type display medium.

15 35. An information providing system comprising:

a contents receiving unit which receives contents;

a contents storing unit which stores the contents;

a contents selecting and editing unit which edits the contents stored in the contents storing unit and arbitrarily selected by

20 a user in one screen picture; and

a control unit which displays the contents edited by the contents selecting and editing unit on the paper-type display medium.

25 36. An information providing system comprising:

a contents receiving unit which receives contents;

a contents storing unit which stores the contents;

a contents code reading unit which reads a contents code and an attribute code from a paper-type display medium on which the contents code and the attribute code are recorded;

30 a contents obtaining unit which obtains the contents corresponding to the contents code and the attribute code read by the contents code reading unit from the contents storing unit;

a contents selecting and editing unit which edits the contents obtained by the contents obtaining unit and arbitrarily selected

35 by a user in one screen picture; and

a control unit which displays the contents edited by the contents selecting and editing unit on the paper-type display medium.

37. The information providing system according to claim 34, wherein the contents are provided as a program, and the contents receiving unit and the contents storing unit are a digital 5 broadcasting receiver.

38. A point system comprising:
a reading and writing device for a paper-type display medium installed in a shop;

10 a contents receiving unit which receives contents;
a contents storing unit which stores the contents;
a contents code reading unit which reads a contents code and an attribute code from a paper-type display medium on which the contents code and the attribute code are recorded;
15 a contents obtaining unit which obtains the contents corresponding to the contents code and the attribute code read by the contents code reading unit from the contents storing unit; and
a control unit which displays the contents obtained by the contents obtaining unit, on the paper-type display medium., together 20 with point information.

39. A point system comprising:
a reading and writing device for a paper-type display medium installed in a shop;

25 a contents receiving unit which receives contents;
a contents storing unit which stores the contents;
a contents selecting and editing unit which edits the contents stored in the contents storing unit and arbitrarily selected by a user in one screen picture; and
30 a control unit which displays the contents edited by the contents selecting and editing unit, on the paper-type display medium, together with point information.

40. A point system comprising:
a reading and writing device for a paper-type display medium 35 installed in a shop;
a contents receiving unit which receives contents;

a contents storing unit which stores the contents;
 a contents code reading unit which reads a contents code
and an attribute code from a paper-type display medium on which
the contents code and the attribute code are recorded;

5 a contents obtaining unit which obtains the contents
corresponding to the contents code and the attribute code read by
the contents code reading unit from the contents storing unit;

10 a contents selecting and editing unit which edits the contents
obtained by the contents obtaining unit and arbitrarily selected
by a user in one screen picture; and

 a control unit which displays the contents edited by the
contents selecting and editing unit, on the paper-type display medium,
together with point information.

15 41. The point system according to claim 38, wherein the
contents are provided as a program, and the contents receiving unit
and the contents storing unit are a digital broadcasting receiver.

20 42. An information providing system comprising:
 a unit which receives contents and a contents code
corresponding to the contents;

 a storage unit which stores the contents and the contents
code;

25 a code reading unit which reads the contents code from an
article on which the contents code is recorded; and

 a control unit which obtains the contents corresponding to
the contents code read by the code reading unit from the storing
unit and displays the contents on the paper-type display medium.

30 43. An information providing system comprising:

 a display device which displays contents;

 a unit which receives the contents and a contents code
corresponding to the contents code;

35 a storage unit which stores the contents and the contents
code;

 a code reading unit which reads the contents code from an
article on which the contents code is recorded; and

a control unit which obtains the contents corresponding to the contents code read by the code reading unit from the storage unit and displays the contents on the display device.

5 44. The information providing system according to claim 43, wherein the control unit obtains the contents corresponding to the contents code read by the code reading unit from the storage unit and displays the contents on a paper-type display medium.

10 45. An information providing method comprising:
 a step which receives contents and a contents code corresponding to the contents;
 a step which stores the contents and the contents code;
 a step which reads the contents code from a paper-type display
15 medium on which the contents code is recorded; and
 a step which obtains the contents corresponding to the contents code read by the code reading unit and controls to display the contents on the paper-type display medium.

20 46. The information providing method according to claim 45, further comprising:
 a step which assigns a contents code corresponding to the contents; and
 a step which applies the contents code to the paper-type
25 display medium.

 47. An information providing method comprising:
 a step which receives contents and a contents code corresponding to the contents;
30 a step which stores the contents and the contents code;
 a step which reads the contents code from a paper-type display medium on which the contents code is recorded; and
 a step which obtains the contents corresponding to the contents code read by the code reading unit and controls to display
35 the contents on a display device.

 48. The information providing method further comprising

a step which obtains the contents corresponding to the contents code read from the paper-type display medium and displays the contents on the paper-type display medium.

5 49. The information providing method according to claim 47, further comprising:

 a step which assigns a contents code corresponding to the contents; and

10 a step which applies the contents code to the paper-type display medium.